

MINIPIX EDU: THE FIRST AFFORDABLE PIXEL DETECTOR.

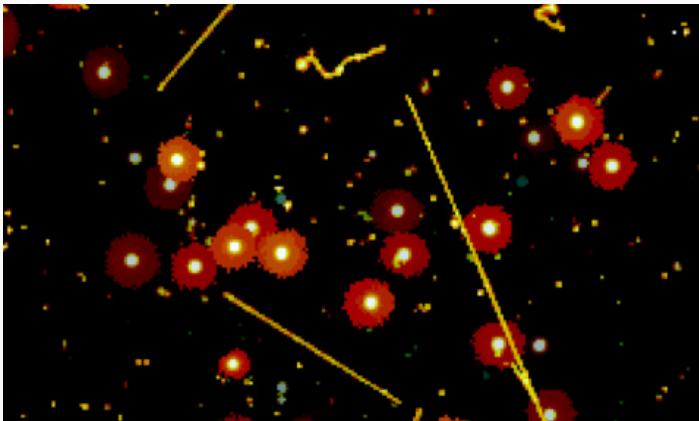
ALL THE BORING PHYSICS TURNS INTO WONDERFUL EXPLORATION...

ADVACAM makes the technology developed by CERN and used in space by NASA affordable for students. It brings modern nuclear technology of radiation imaging detectors to the classrooms and let students discover the invisible world of ionizing radiation surrounding us. Laws of physics are directly observed without memorizing formulas from textbooks.

It is enough to plug the MiniPIX EDU device to the USB port of your PC and start the software. The fascinating images of ionizing particles will start to appear in front of you.



MYSTERIOUS PATTERNS



You will see that different types of radiation make different mysterious patterns on your screen:

Large roundish blobs by alpha particles, long strikes by cosmic muons, curving worms of electrons or small dots by gamma or X-rays.



From time to time even more rare can be observed: Delta electrons, recoiled nuclei, cascade of two or more nuclear transitions, proton tracks...

Students will explore the origin of different types of radiation and see how radioactive isotopes migrate in the nature and in the artificial environment of human houses, cities, industries. They can understand how people benefit of ionizing radiation and radioactivity: Methods of medical imaging, non destructive testing in industry, methods of nuclear medicine for cancer treatment, safety application, nuclear power...